LIMITED WARRANTY/LIMITATIONS OF REMEDIES AND LIABILITY **USA and Canada**

<u>Limited Warranty.</u> Cascade Designs, Inc. ("Cascade"), to the original owner ("Owner"), under intended use and maintenance, warrants the enclosed product ("Product") to be free from defects in materials and workmanship for the life of the Product. No warranty against defects in materials and workmanship will apply if Product is (i) altered in any way, (ii) used for pure poses inconsistent with Product's intended purpose or design, or (iii) improperly maintained. Warranty will furthermore be voided where Owner/user (i) failed to follow Product instructions or warnings or (ii) subjected Product to misuse, abuse, or neglect.

During the warranty period, original Product parts determined by Cascade to be defective in materials or workmanship will be repaired or replaced as Owner's sole remedy. Cascade reserves the right to replace any discontinued product with a new product of comparable value and function. A returned product deemed irreparable becomes the property of Cascade and will

EXCLUDING THE LIMITED WARRANTY PROVIDED ABOVE, CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS, TO THE MAXIMUM EXTENT PERMITTED BY LAW, MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, AND DISCLAIM ALL WARRANTIES, DUTIES AND CONDITIONS. WHETHER EXPRESSED, IMPLIED OR STATUTORY, WITH RESPECT TO THE PRODUCT, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, AGAINST LATENT DEFECTS, FITNESS FOR A PARTICULAR PURPOSE, OR CORRESPONDENCE TO DESCRIPTION.

Warranty Service. To obtain service under this warranty, the warranty-eligible Product must be presented to a Cascade authorized dealer. In the United States and Canada, warranty service may also be obtained by calling 1.800531.9531 [M - F, 8.00 a.m. - 4:30 p.m., PDT]. Owner is responsible for all costs associated with returning Product to Cascade for service. Where at its sole discretion Cascade deems Product eligible for warranty repair or replacement, Cascade will pay the shipping and handling associated with returning repaired or replaced Product to Owner. In instances where Cascade deems a returned product ineligible for warranty service. Cascade will, if possible, repair product for a reasonable charge that includes return shipping and handling. For warranty return service details, please go to www.platypushydration.com

Limitation of Remedies, Should a court of competent jurisdiction find the limited warranty set forth above breached, Cascade's only obligation will be to, at its option, either repair or replace Product. Should the aforementioned remedy fail of its esse purpose, Cascade will, in exchange for return of Product, refund to Owner Product's original purchase price. THE FOREGOING REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE PURCHASER AGAINST CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS, REGARDLESS OF LEGAL THEORY.

Limitation of Liability. Cascade's, its affiliates' and their suppliers' maximum liability is limited to incidental damages not to exceed the original purchase price of the Product. CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS HEREBY DISCLAIM AND EXCLUDE ANY LIABILITY FOR ANY CONSEQUENTIAL OR OTHER DAMAGES RESULTING FROM ANY REASON WHATSOEVER THIS EXCLUSION AND LIMITATION APPLIES TO ALL LEGAL THEORIES UNDER WHICH DAMAGES MAY BE SOUGHT, AND WILL APPLY EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE.

This limited warranty gives Owner specific legal rights; Owner may have additional rights, which may vary state to state

Always completely follow safety, use, operation, and maintenance instructions for this or any other Cascade product.

European Union customer statutory rights are not affected.

Cascade Designs, Inc.

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WARNING

BIOLOGICAL HAZARD

There are hazards associated with backcountry travel and the use of water filters. Drinking untreated water may expose you to harmful microorganisms and increase your risk of gastrointestinal illness. Using this filter improperly increases your risk of exposure to harmful microorganisms and increases your risk of gastrointestinal illness. Reduce your chances of becoming sick by following the warnings and instructions in this manual and educating yourself on backcountry water safety.

YOU ARE RESPONSIBLE FOR YOUR OWN SAFETY AND THE SAFETY OF THOSE IN YOUR GROUP, PLEASE USE GOOD JUDGMENT.

Never use the Gravityworks system to filter seawater or chemically contaminated water, such as water from mining tailing ponds or near large agricultural operations. The GravityWorks system does not make drinkable water from these sources and does not remove all viruses, chemicals and radioactive materials, or particles smaller than 0.2 microns.

Keep the hoses and other potentially contaminated parts away from filtered water to prevent cross contamination.

READ, UNDERSTAND, AND FOLLOW ALL instructions and warnings in this manual before using this filter. Failure to follow warnings and instructions may result in gastrointestinal illness.

IMPORTANT

Read and understand this entire manual carefully before assembling or using this water filter. Keep this manual for future reference. If you do not understand this manual or have any questions, please call Cascade Designs at 1-800-531-9531.

SPECIFICATIONS

Storage Temperature	Above 32 F / 0 C (Do Not Freeze)
Filter Media	Hollow Fiber Membrane (HFM)*
Filter Life	~ 1500 liters (depends on water conditions)
Flow Rate	~ 1.75 liters per min. (depends on filter condition, water quality)
Dimensions	10.0 x 4.0 in. / 25.4 x 10.1 cm
Weight	11.5 oz. / 326 g
	Storage Sack
	Instruction Manual
	Cleanside Cap
	Shutoff Clamp
	Clean Hose (48 in. / 122 cm)
	Dirty Hose (12 in. / 30 cm)
	Filter Cartridge
	Clean Reservoir with Reservoir Cap
	Male Quick Disconnect fitting
Kit Contents	Dirty Reservoir (with built-in Female Quick Disconnect fitting)
	l

^{*} The Hollow Fiber Membrane (HFM) is a collection of small porous tubes that can be damaged by dropping or freezing. This damage cannot be seen. Follow Filter Integrity Test to inspect filter to detect possible damage.

FILTER INTEGRITY TEST A. Backflush a minimum of 1/2 L of water. B. Remove Clean Hose. C. Blow air and check. Cannot blow through filter = Fiber OK. See steady stream of bubbles = Fiber broken. STOP! REPLACE CARTRIDGE.

TROUBLESHOOTING Problem Poor Performance Leaking Female Quick Clogged Female Quick Rinse Female Quick Disconnect Disconnect Decreased/no water flow Trapped air in Filter Filter 1/8 L water into Clean Reservoir and then lift it Cartridge above Dirty Reservoir to purge air (see Tips) Backflush Filter Cartridge Clogged filter (see Step 3) Kinked hose Straighten hose Disengaged Male Quick Push Male Quick Disconnect into fitting completely Closed Shut-off Clamp Open Shut-off Clamp platypus



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Printed on 50% Recycled (30% PCR) Paper, Processed Chlorine/Acid Free

PLATYPUS® GRAVITYWORKS™ PUMP-FREE **WATER SYSTEM**



INSTRUCTION **MANUAL**

TIPS

Filter Cartridge

Clean the cartridge by backflushing it before each use to prevent silt build-up and extend the filter's lifespan. (See Step 3, instruction manual.) If backflushing fails to restore water flow, replace cartridge.

On extended trips, bring along a spare cartridge, which can be purchased from a local or online Platypus dealer.

Water Collection and Preparation

Use the cleanest, clearest water available

To treat water with suspected waterborne viruses, use an approved disinfectant. Follow the manufacturer's recommendation for its use. Information on disinfectant use can be found on the Centers for Disease Control Web site: www.CDC.gov.

Operation

To maximize water flow, hang or hold the Dirty Reservoir as high as possible without putting tension on the hoses or pulling the Clean Reservoir off the ground.

Trapped air in the top of the Filter Cartridge may reduce water flow. Purge the trapped air by first filtering some water (1/8 L) into the Clean Reservoir and then lifting it (without kinking the hoses) above the Dirty Reservoir to reverse the water flow. Once the air bubbles are purged, place the clean container on the ground and allow the system to resume filtering water.

Direct Hydration Reservoir Fill

Remove the Bite Valve and store in a clean place. Remove Clean Hose from Filter Cartridge and attach Hydration Drink Tube to Clean Hose Barb. Follow Steps 1-2 (instruction manual). After the water is filtered and collected, reinstall Bite Valve. Reattach Clean Hose to Filter Cartridge and store.

Camp Water Source

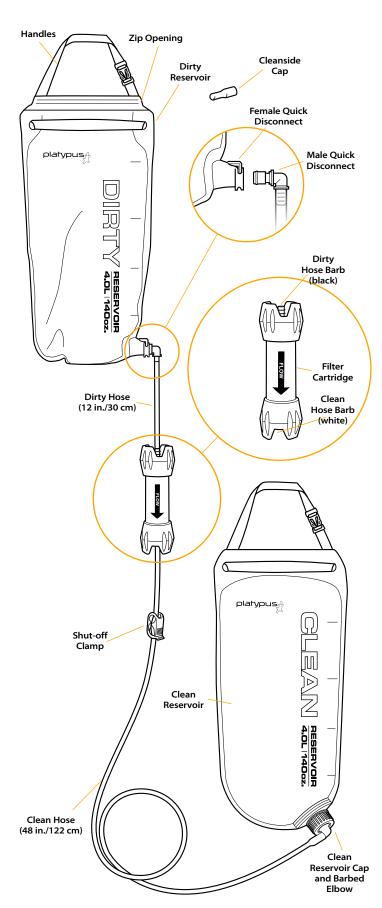
The Clean Reservoir may be used as an in-camp water source to provide water on demand for cleaning, drinking, or cooking by following these directions:

Close Shut-off Clamp after all water has been filtered. Remove Clean Hose from Clean Hose Barb. Push Cleanside Cap onto Clean Hose Barb (or Rinse Clean Hose Barb thoroughly with clean filtered water before later reinstalling Clean Hose). Hang Clean Reservoir by handles. Open Shut-off Clamp to start water flow.

> IN-CAMP WATER SOURCE



KNOW YOUR PLATYPUS® GRAVITYWORKS™ GRAVITY FILTER SYSTEM

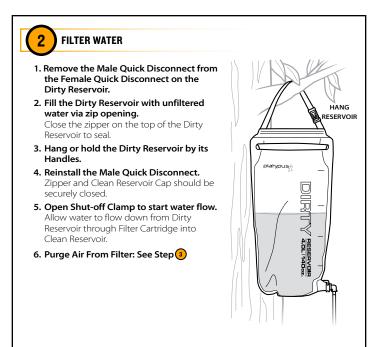


PLATYPUS® GRAVITYWORKS™ PUMP-FREE WATER SYSTEM OPERATING INSTRUCTIONS



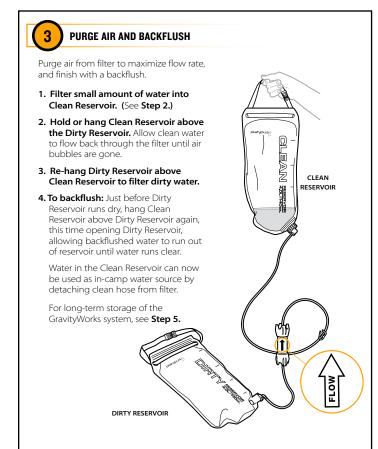


Handle Filter Cartridge carefully because a damaged filter cannot prevent exposure to harmful microorganisms. Test filter for damage if dropped 5 feet (1.5 meters) or greater onto a hard surface. (See Filter Integrity Test.) If filter is damaged, discontinue use and replace cartridge.





To avoid contamination when filtering water, never splash dirty or unfiltered water into clean container.





PACK AND STORE GRAVITYWORKS SYSTEM

- 1. Empty all water from system.
- 2. Lay both reservoirs flat on top of each other.
- Wrap hoses around Filter Cartridge and place assembly on top of reservoirs.

NOTE: All parts (reservoirs, hoses, cartridge) should remain connected to avoid cross contamination.

4. Roll both reservoirs around Filter Cartridge and hoses and place in the storage sack.

Always disinfect the filter before or after long-term storage, or after long-term use (15+ consecutive days). See **Step 5**.



WARNING

Never allow Filter Cartridge to freeze because freezing the filter will permanently damage the internal fibers. Always wash and dry filter parts



DISINFECT FILTER

To eliminate the growth of bacteria or mold and help restore flow rate, always disinfect the filter before and after long-term storage, or after long-term use (15+ consecutive days).

- 1. Remove Male Disconnect from Dirty Reservoir.
- 2. Rinse Dirty Reservoir with clean water.
- 3. Mix a solution of 2 drops of household bleach (without fragrances or dyes) to 1 liter of water in Dirty Reservoir.

NOTE: Handle bleach carefully because it can stain or discolor clothing.

- 4. Assemble GravityWorks system.
- Close Shut-off Clamp to stop water flow.
- Place open end of Clean Hose in sink.
- Hold or hang Dirty Reservoir above sink.
- 5. Open Shut-off Clamp and let bleach solution filter through system into sink.
- 6. Air or towel dry GravityWorks system parts completely.

NOTE: It is not necessary for the inside of the Filter Cartridge to dry completely, as the bleach in the solution will prevent the growth of harmful microorganisms and biofilm. However, a fully dry filter helps protect against damage from drops or freezing. To dry filter completely after disinfection:

- Remove gray protective bumpers from filter.
- Remove white and black thread-on caps and let filter sit at room temperature for at least 1 week.
- To avoid cross contamination, replace white cap on outlet of filter, black cap on inlet side. Replace protective bumpers.
- 7. Pack and store GravityWorks assembly in storage sack.



